



## 1671J

Part Number: 1671J

50 Ohm Microwave Cable

### Product Description

RG-405/U type, 24 AWG solid .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), PVC jacket.

### Product Specifications

#### Conductor

Total Number of Conductors:	1
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### Technical Specifications

#### APAC Standard

MIL Order #39 (China RoHS):	Yes
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#### Bend Radius

Min Bend Radius (Overall):	1 in
Min Bend Radius/Installation:	0.125 in
Min Flexing Radius:	0.375 in

#### CCB-Part Number

Notes:	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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#### CCB-Sub-Part Number

Plenum (Y/N):	No
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### Contact Information

PHONE_NUM:	1-800-Belden1
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## EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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## Environmental Characteristics

Operating Temp Range:	-40°C To +105°C
Suitability - Indoor:	Yes

## EU Directive

EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
RG Type:	405/U
UL AWM Style:	UL Style 10245 (30 V 105°C)

## Safety

Other Flammability:	Horizontal Wire
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## Temperature Range

Non-UL Temp Rating:	105°C
UL Temp Rating:	105°C (UL AWM Style 10245)

## Use

Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	26 lbs

## Impedance:

Nominal Characteristic Impedance
50 Ohm

## Inductance:

**Nominal Inductance**0.07  $\mu$ H/ft**Conductor DCR:****Nominal Conductor DCR****Nominal Outer Shield DCR**

64.2 Ohm/1000ft

10.2 Ohm/1000ft

**Power Rating:****Frequency [MHz]****Max. Power Rating [W]**

500 MHz

180 W

1,000 MHz

119 W

2,000 MHz

79 W

3,000 MHz

62 W

5,000 MHz

46 W

7,000 MHz

37 W

10,000 MHz

30 W

15,000 MHz

24 W

18,000 MHz

21 W

20,000 MHz

20 W

**Delay:****Nominal Delay****Nominal Velocity of Propagation (VP)**

1.46 ns/ft

69.5 %

**Voltage:****Non-UL Voltage Rating****UL Voltage Rating**

1500V RMS

30V RMS (UL AWM Style 10245)

**VSWR:****Frequency [MHz]****Max. VSWR**

500 MHz

1.1:1

20000 MHz

1.3:1

**Capacitance:**

**Nominal Capacitance Conductor to Shield**

29.5 pF/ft

**High Frequency (Nominal/Typical):**

Frequency (MHz)	Nom. Insertion Loss
500 MHz	15 db/100ft
1000 MHz	22.2 db/100ft
2000 MHz	32.8 db/100ft
3000 MHz	41.2 db/100ft
5000 MHz	54.9 db/100ft
7000 MHz	66.4 db/100ft
10000 MHz	81.2 db/100ft
15000 MHz	102 db/100ft
18000 MHz	113 db/100ft
20000 MHz	120 db/100ft

**Insulation:**

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.062 in

**Outerjacket 1:**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.127 in

**Conductor:**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
24	Solid	SPCCS - Silver Plated Copper Covered Steel	0.02 in	1

**Outershield 1:**

Type	Layer	Material	Coverage
Tape	1	Copper Foil	100 %
Braid	2	Tin-Filled Composite	100 %

## Product Variants

Part Number	Color	Put-Up Type	Length
1671J 0101000	BLACK	Reel	1000 ft
1671J 010100	BLACK	Reel	100 ft
1671J 010500	BLACK	Reel	500 ft
1671J 3681000	CLEAR, TRANSPARENT	Reel	1000 ft
1671J 368100	CLEAR, TRANSPARENT	Reel	100 ft

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